ABSTRACT

The present invention provides a tire distortion detecting method, a distortion detector, and a tire which can reduce the occurrence of a deterioration and can be used for a control system such as a stability control system. That is, series of conductors composed of a plurality of conductor pieces 101 and 102 are provided in two different layers. The conductor pieces 101 and 102 are embedded in lines at predetermined intervals in the circumferential direction of a tire 300. A pulsed electromagnetic wave is radiated to the surfaces of metal foils 101 and 102 in the layers from a monitoring device 200 provided in a tire house 400 of a vehicle. The monitoring device 200 receives a pulsed electromagnetic wave reflected from the metal foils 101 and 102 in the layers or a member other than the metal foils. Time from the radiation of a pulsed electromagnetic wave to the reception of a reflected pulsed magnetic wave is measured repeatedly, time at which no distortion occurs on the tire 300 is stored as a reference value, and the measured time and the stored reference value are compared with each other to detect a distortion of the tire 300.